## WHAT IS CLAIMED IS:

1	1. A system for permitting interaction with media data analysis and media
2	representation generation, the system comprising:
3	a user interface for permitting a user to control the media content analysis and
4	media representation generation; and
5	a media analysis software module for analyzing features of the media content, the
6	media analysis software module being communicatively coupled to the
7	user interface to receive media content analysis instructions.
1	2. The system of claim 1, the media analysis software module further comprises
2	content recognition software for recognizing features in media content.
1	3. The system of claim 1, further comprising processing logic for controlling
2	display of a user interface.
1	4. The system of claim 1, further comprising processing logic for controlling the
2	generation of a media representation.
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1	5. The system of claim 1, further comprising hardware for writing a media
2	representation in digital format.
l	6. The system of claim 5, further comprising a storage medium for storing media
2	representations written in digital format.

1 7. The system of claim 1, wherein the media representation is generated in paper 2 format. 1 8. The system of claim 7, wherein the paper format includes at least one user-2 selectable identifier allowing a user to access and control media content. 1 9. The system of claim 8, wherein the at least one user-selectable identifier 2 comprises at least one barcode printed on the media representation. 1 10. The system of claim 8, wherein the at least one user-selectable identifier 2 further comprises at least one play identifier that can be selected to play an associated 3 media content. 1 11. The system of claim 1, further comprising a data structure for representing 2 transformation of media content. 1 12. The system of claim 1, further comprising a communication monitoring 2 module for monitoring communication between the components of the system, wherein 3 the communication monitoring module forwards requests for information and replies to 4 requests among system components.

1 13. The system of claim 1, wherein the user interface further comprises a 2 selection menu for allowing a user to select feature analysis to be performed on media 3 content. 1 14. The system of claim 1, wherein the user interface further comprises a field for 2 setting a threshold on confidence values associated with results of the media content 3 analysis. 1 15. The system of claim 1, wherein the user interface further comprises at least 2 one field for managing and modifying display of media information on a media 3 representation. 1 16. The system of claim 1, wherein the user interface further comprises a preview 2 field for previewing active media frames within selected media content. 1 17. The system of claim 1, wherein the user interface further comprises a preview 2 field for previewing the media representation being generated. 1 18. The system of claim 1, wherein the user interface further comprises at least 2 one content selection field for selecting segments of media content from at least one

source to be displayed in a media representation.

3

- 1 19. The system of claim 18, wherein the content selection field further comprises 2 a selector that a user can slide along the content selection field in order to select segments
- 3 to be displayed in a media representation.
- 20. The system of claim 18, wherein the content selection field further comprises a graphical illustration of media content from which a user can view media content and select segments of media content.
- 21. The system of claim 20, wherein the graphical illustration of media content
  further comprises an audio waveform timeline displaying audio content.
- 22. The system of claim 20, wherein the graphical illustration of media content
  further comprises a video timeline displaying video frames extracted from video content.
- 23. The system of claim 20, wherein the graphical illustration of media content
  further comprises a video timeline displaying text extracted from video content.
- 24. The system of claim 18, wherein the content selection field further comprises a field for displaying the results of media content analysis, the results being displayed as defined segments along a timeline.
- 25. The system of claim 1, further comprising an output device driver module for
  driving the media content analysis and the media representation generation, the output

- device driver module being communicatively coupled to the user interface to receive user
  instructions.
- 26. The system of claim 25, further comprising an augmented output device for generating a media representation, the augmented output device being communicatively coupled to the media analysis software module to receive transformed media data, the augmented output device being communicatively coupled to the output device driver module to receive instructions for media representation generation.
- 27. A method for permitting interaction with media data analysis and media
  representation generation, the method comprising:
  interacting with an interface to control the media data analysis and media
  representation generation;
- analyzing features of media data for media representation generation;
  driving the media data analysis; and
- driving the media representation generation, by receiving instructions and sending
  instructions regarding media representation parameters.
- 28. The method of claim 27, further comprising generating a media
  representation.
- 1 29. The method of claim 27, wherein analyzing features of media data further comprises performing speech recognition on the media data.

1 30. The method of claim 27, wherein analyzing features of media data further 2 comprises performing optical character recognition on the media data. 1 31. The method of claim 27, wherein analyzing features of media data further 2 comprises performing face recognition on the media data. 1 32. The method of claim 27, wherein analyzing features of media data further 2 comprises performing speech recognition on the media data. 1 33. The method of claim 27, wherein analyzing features of media data further 2 comprises performing speaker detection on the media data. 34. The method of claim 27, wherein analyzing features of media data further 1 2 comprises performing face detection on the media data. 35. The method of claim 27, wherein analyzing features of media data further 1 2 comprises performing event detection on the media data. 1 36. The method of claim 27, further comprising adding a print function to a 2 media rendering application for printing a media representation.

37. The method of claim 27, storing media content on a storage medium that is

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accessible to augmented output device.

- 1 38. The method of claim 27, wherein interacting with an interface to control the
- 2 media data analysis and the media representation generation further comprises using a
- 3 user interface to display media content formatting options to a user.
- 1 39. The method of claim 27, wherein interacting with an interface to control the
- 2 media content analysis and the media representation generation further comprises
- 3 selecting an analysis technique to be applied to media content, wherein the analysis
- 4 technique recognizes defined features in the media content.
- 1 40. The method of claim 27, wherein interacting with an interface to control the
- 2 media data analysis and the media representation generation further comprises selecting a
- 3 threshold value to be applied to confidence levels associated with defined features that
- 4 are recognized in the media content.
- 1 41. The method of claim 27, wherein interacting with an interface to control the
- 2 media data analysis and the media representation generation further comprises
- 3 previewing the media representation being generated in a preview field that displays the
- 4 media representation as it is being created.
- 1 42. The method of claim 27, wherein interacting with an interface to control the
- 2 media data analysis and the media representation generation further comprises selecting
- 3 an update field after modifying content on a user interface to update the preview field.

- 1 43. The method of claim 27, wherein interacting with an interface to control the
- 2 media data analysis and the media representation generation further comprises selecting
- 3 segments of media content in a field of the user interface by sliding a selector along a
- 4 timeline displaying media content
- 1 44. The method of claim 27, wherein interacting with an interface to control the
- 2 media data analysis and the media representation generation further comprises selecting a
- 3 play option on the user interface to play media content.
- 1 45. The method of claim 27, further comprising selecting a print option on a
- 2 media rendering application, wherein the user interface appears and the user selects
- 3 parameters for transformation of media content.
- 1 46. The method of claim 27, further comprising selecting a print option on media
- 2 rendering application, wherein the user interface appears in which default media content
- 3 transformation has been performed and the media representation is shown in a preview
- 4 field of the user interface.
- 1 47. The method of claim 27, wherein generating a printable multimedia
- 2 representation further comprises printing a media representation in a paper-based format.
- 1 48. The method of claim 47, further comprising selecting a user-selectable
- 2 identifier on the paper-based format to play the associated media content.